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(54) REVERSIBLE THERMAL COLOR FORMING COMPOSITION, RECORDING MEDIUM USING SAME, RECORDING METHOD AND APPARATUS

(57)Abstract:

PURPOSE: To stably hold color development and color erasure at room temp. by forming a reversible thermal color forming recording medium by providing a recording layer containing an electron donating color forming compound and a specific electron acceptive compound on a support.

CONSTITUTION: A compound having a 12 or more C aliphatic group such as an organophosphorus compound, an aliphatic carboxylic acid compound or a phenol compound being an electron acceptive compound and an electron donating color forming compound are dissolved or dispersed in a solvent along with a proper resin binder to prepare a coating solution for a recording layer. This coating solution is applied to a support and dried to form the recording layer to obtain a reversible thermal recording medium. It is pref. that a protective layer is provided on the recording layer and an undercoat layer based on a polymeric compound is provided between the support and the recording layer. After the recording layer is formed, it is pref. to perform color development and color erasure in succession at least once.

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